Introducing the NEW VESC1640 Control!

Versatility and adaptability, the VESC1640 has it!

At the heart of any good environmental system is a good control. VES Environmental Solutions LLC is North America's leader in designing and supplying quality cost effective ventilation, cooling, lighting and related environmental products. To get the most out of our energy saving and efficient products we have developed a unique line of controls from simple stand alone for each component up to complete environmental systems and management software controls. Call VES for your opportunity for the next generation of ventilation.

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VESC1640

This is our most popular and cost effective environmental system control. The 16 stage control has versatility, flexibility and expandability. We start with 4 stages of 0-10 VDC designed to operate our popular line of Variable Frequency drives (VFD). One stage of 0-10VDC can operate up to 5 VFD's as long as they are not spaced more than 100 feet apart to a maximum of 500 feet. This gives a potential of operating 20 fans. The remaining 12 stages can operate fans, cooling, heating, lighting, curtain or other inlets.

- The VESC1640 has 4 variable stages for heating or cooling control and 12 relay stages for heating, cooling, actuator control, duty cycle, or timed events.

- You can set up and manage your unique control strategy using the VESC1640's keypad and easy-to-understand menu system.

Designed with quality and you in mind

We designed the VESC1640 so one unit can control an entire hog or dairy barn, poultry house or greenhouse. For larger facilities, you can connect up to 32 VESC1640s and operate them from a central computer using the powerful and convenient optional software.

The VESC1640, like every VES control, was designed to our strict quality standards and is CSA certified. Every VES control is tested — yes, every unit we sell — before it leaves the factory, ensuring it works as designed and you get the best product possible.

Superior customer service and support Year-after-year, our experts train all dealers, and others in our value chain, to support the VESC1640 and other VES controls.

The VESC1640's onboard diagnostics make sure important internal systems are working as intended. The VESC1640's easy-to-read user manual includes configuration and programming worksheets, as well as troubleshooting sections.

The five-level PIN security system allows you—the facility manager—to prevent unauthorized changes to configurations and settings.

We know of no other electronic control used for these or similar commercial purposes which provides so many important features and benefits for so modest an investment.

"Since converting my natural ventilation freestall barn to an automatic system controlled by the VESC1640, I have seen improved milk production and no freezeups during winter. The VESC1640 automatically adjusts variable frequency drive fans and inlet curtains, providing proper minimum ventilation and consistent temperature and air flow. On hot days, the VESC1640 controls high-pressure fog cooling using its duty cycle timer. Automatically-controlled ventilation has proven to be a great improvement over manually controlled ventilation, and the VESC1640 has the ability to make it happen."
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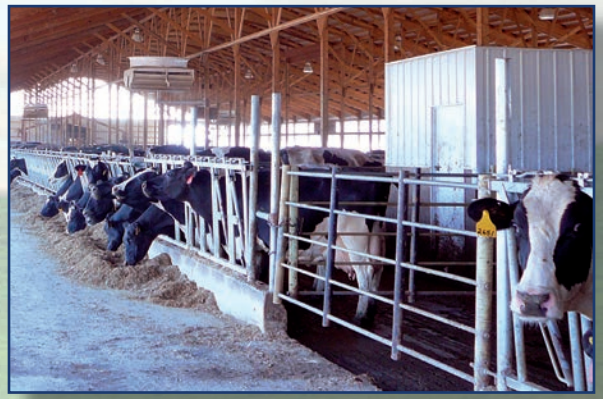

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Greenhouse Applications

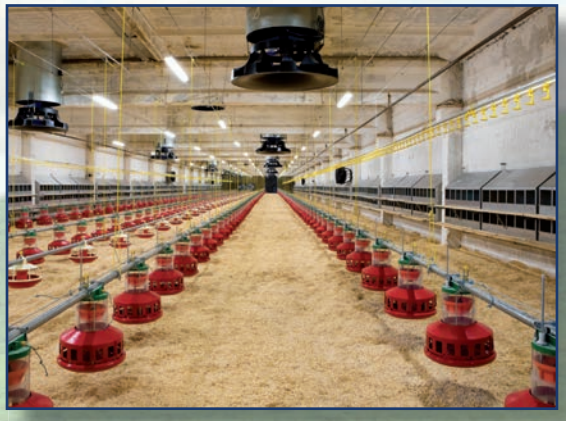
- In a power or naturally-ventilated greenhouse, use the VESC1640 to control motorized louvers and ridge vents and single-speed, two-speed, or variable-speed motors. During hot weather, use the VESC1640 to automatically switch on the fan and water pump of an evaporative cooler at specific temperatures.
- For watering or misting plants, use the VESC1640's on/off cycle timer that you can program for certain times and/or temperatures.
- For greenhouses with separate temperature requirements, for example, ventilation and heated earth beds, use the VESC1640's fourzone feature that provides independent climate control for each zone.
- For applications using the DIF technique, use the VESC1640's temperature setback feature. For example, use setback to reduce the temperature for two to three hours at dawn to control plant height and growth.

Dairy Applications

- Dairy applications In a naturally-ventilated free-stall building, use the VESC1640 to control curtain machines, mixing fans, and water misting for evaporative cooling.
- In a tunnel ventilation facility, use the VESC1640 to control curtain machines and heaters.
- During hot weather, use the VESC1640 to control evaporative cooling equipment, such as pumps and solenoids.
- Use the optional humidity sensor, to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.

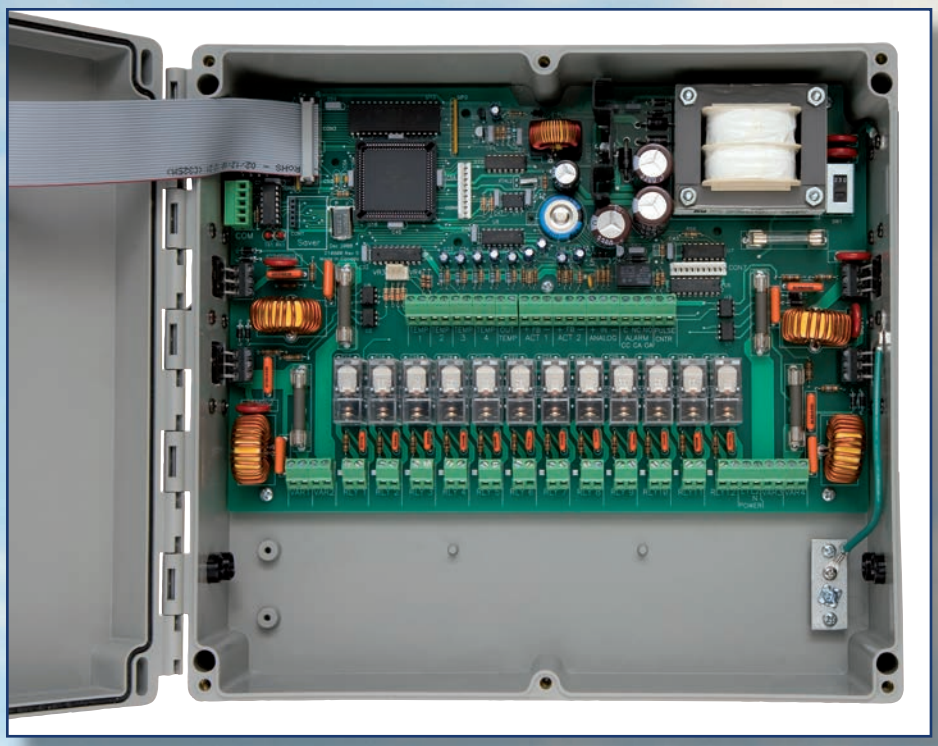
Swine Applications

- In a naturally-ventilated hog building, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
- Use the optional humidity sensor to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.
- In a tunnel ventilation building, use the VESC1640 to control tunnel fans and curtains, pit fans, wall fans, ceiling inlets, and heaters. The VESC1640 can close ceiling inlets or switch off wall fans when changing to tunnel mode.
- Use the VESC1640's timer function to control water misting for evaporative cooling. The optional humidity probe can automatically adjust the ventilation to reduce high humidity.
- In a typical power ventilation setup, use the VESC1640 to control all fans, heaters, and actuator controlled ceiling inlets. If you have lights or feed augers that need to be on at certain times, use the VESC1640 to easily operate these.



Turkey and Other Poultry Applications

- In a naturally-ventilated turkey house, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
- Use the optional humidity sensor to reduce humidity accumulation by automatically adjusting ventilation within a set humidity range.
- In a broiler or layer house with tunnel ventilation, use the VESC1640 to control all fans and curtains, ceiling inlets, and heaters. The VESC1640 can close ceiling inlets or switch off wall fans when changing to tunnel mode.
- Use the VESC1640's timer function to control water misting for evaporative cooling.



Feature list

- Four 0-10V DC Stages
- 12 Relays
- Variable DC signal output
- Slave unit capability
- Inlet actuator control
- Curtain control
- Tunnel ventilation mode
- Duty cycle and timed events
- Manual override
- Custom growth curves
- Four-zone temperatures
- Outdoor temperatures
- Humidity control
- Water use monitoring
- Programmable alarms
- De-icing start (VAR fans)
- Computer compatibility
- Upgradeable firmware
- Transferable settings
- CSA approval
- Two-year warranty
- Electrical ratings Input
- Removable relays

More great features

- One alarm relay (for external alarm siren or alarm system)
- Four-zone temperature monitoring and control
- Outdoor temperature monitoring ability
- Temperature setback for day/night temperature (DIF) control
- Water usage monitoring ability
- Humidity monitoring and control ability
- Adjustable temperature settings, including two configurable seven-step growth curves
- Startup timer for distributing backup generator initial startup load
- Three-second full-power-turn-on for minimizing fan ice-up
- Logging of temperatures, alarms, relay “on” durations, and setting changes
- Power-failure memory protection, including internal 24-hour clock
- Four-line, backlit LCD display
- Thirty-foot temperature probe, extendable to 500 feet (additional probes available)
- Rugged enclosure (corrosion and water resistant, fire retardant)
- Two-year limited warranty
- 120/230 VAC, 50/60 Hz Relay stages
- 10 A at 120/230 VAC, general purpose (resistive)
- 1/3 HP at 120 VAC, 1/2 HP at 230 VAC
- 360 W tungsten at 120 VAC Alarm relay
- 0.4 A at 125 VAC; 2 A at 30 VDC, resistive load
- 0.2 A at 125 VAC; 1 A at 30 VDC, inductive load

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Welcome to the next generation of ventilation!

SINGLE-STAGE CONTROL

Environmental Solutions, LLC.

12/2014

VES Environmental Solutions LLC is North America's most innovative ventilation and control company. Our new VESC0110 control combines innovation and value. The VESC0110 is a signal stage variable control that will send a 0-10VDC single to the VFD to adjust the speed of the fan based on temperature change sensed by the control. This variable speed digital control is designed to work with any of our VFD (Variable Frequency Drives). Ideal to use with our 72″ VES Cyclone, 50″ VES Cyclone, 72″ and 50″ exhaust fans.

Each VESC0110 control can run up to 5 VFD's as long as the VFD's are within 500′ of the control. Fans can run at high to low speed or shut off if the temperature drops too low. Built-in alarm relay and disconnect relay which is critical for proper disconnect of the VFD on low temperature shut off are engaged if selected.

The control has an easy to program face plate along with a 3 digit temperature display and 0-10 VDC status display.

DESCRIPTION

The VESC0110 is a temperature-based, single-stage control with 0 to 10 VDC output and a disconnect relay.

FEATURES

- Automatic temperature-based control of fan speed
- Variable 0 to 10 V output
- Disconnect relay
- Alarm relay (for external alarm system or siren)
- Three-second full-power-turn-on to minimize fan ice-up
- Three-character LED display
- Status and programming LEDs
- Error code display
- Power-failure protection (will not lose settings)
- Six-foot temperature probe, extendable to 500 feet
- Rugged enclosure (corrosion resistant, water resistant and fire retardant)
- Two-year limited warranty

OPTIONS

- Temperature Probes - monitor temperatures ranging from –49 to 122°F (-45 to 50°C). The probes are available in 1, 6, 30, 75 or 150-foot cable lengths. Temperature probe distance from the control can be extended up to 500 feet using extension cable.
- Extension cable - available in 500-foot lengths.

Contact us for our complete line of ventilation products including exhaust fans, temperature controls, lighting, curtain inlet and walls, cooling, polycarbonate panels, gates, headlocks, stalls, steel and rubber flooring.

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Environmental Solutions, LLC.

12/2014

VES Environmental Solutions, LLC is North America's most innovative ventilation and environmental control company. Our new VESC0422 control is designed to run multiple fans which are controlled by VFD's (Variable Frequency Drive). This control can run two stages of 0-10V DC signals for the VFD's on our 72″ and 50″ VES Cyclones and FRP72″ and FRP50″ variable exhaust fans. The VESC0422 control also has three single stage relay's that can be used as ventilation, heating or cooling controls.

DESCRIPTION

The VESC0422 control is a temperature-based control with two variable DC outputs and three relays. The VESC0422 comes with seven factory-configured operating programs which can be easily configured for your ideal situation.

The VESC0422 displays alert conditions such as high and low temperatures, power failure, and low line voltage and can also connect to an alarm siren, alarm panel or auto-dialer. The VESC0422 is ideal for poultry, livestock, greenhouse or light-industrial buildings.

Input power	120/230 VAC, 50/60 Hz
Variable stages	10 A at 120/230 VAC, general-purpose (resistive) 7 FLA at 120/230 VAC, PSC motor 1/2 HP at 120 VAC, 1 HP at 230 VAC, PSC motor
Variable stage fuses	15 A, 250 VAC ABC-type ceramic
DC signal output (V1, V2)	1 to 10 VDC, 2K Ω load
Relay stages ① (STAGE 3, STAGE 4, STAGE 5)	6 A at 120/230 VAC, general-purpose (resistive) 1/3 HP at 120 VAC, 1/2 HP at 230 VAC 360 W tungsten at 120 VAC
Relay Fuses (F1, F4 and F5)	12 A, 250 VAC ABC-type ceramic
Alarm relay	0.4 A at 125 VAC; 2 A at 30 VDC, resistive load 0.2 A at 125 VAC; 1 A at 30 VDC, inductive load

①You can connect more than one piece of equipment to a relay as long as they are the same type (for example, two fans) and the total current draw does not exceed the stage's limit.

FEATURES

- Automatic temperature-based control
- Seven configurable operation programs
- Adjustable temperature set-point and differential
- Adjustable high/low temperature alert settings
- Two variable stages
- Three general-purpose relays (heat, cool or disconnect)
- One alarm relay (for external alarm system or siren)
- Four-character LED display and individual stage LEDs
- Fahrenheit and Celsius display
- Minimum and maximum temperature logging
- Error code display for troubleshooting
- Three-second full-power-turn-on to minimize fan ice-up
- Ventilation disable option
- Manual override/test mode
- One temperature probe input
- Power-failure memory protection
- 30-foot temperature probe, extendable to 500 feet
- Overload protection fuses
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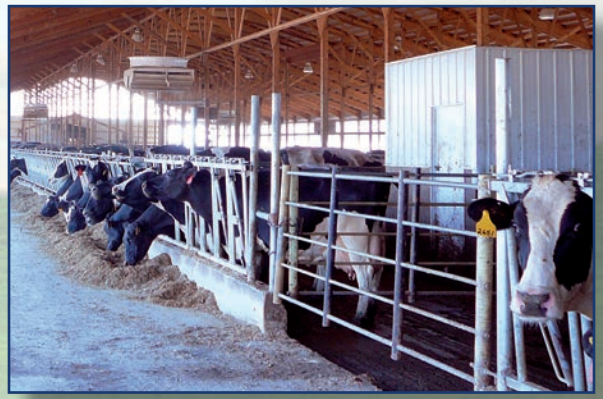

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Greenhouse Applications

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Dairy Applications

- Dairy applications In a naturally-ventilated free-stall building, use the VESC1640 to control curtain machines, mixing fans, and water misting for evaporative cooling.
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Swine Applications

- In a naturally-ventilated hog building, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
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- Use the VESC1640's timer function to control water misting for evaporative cooling. The optional humidity probe can automatically adjust the ventilation to reduce high humidity.
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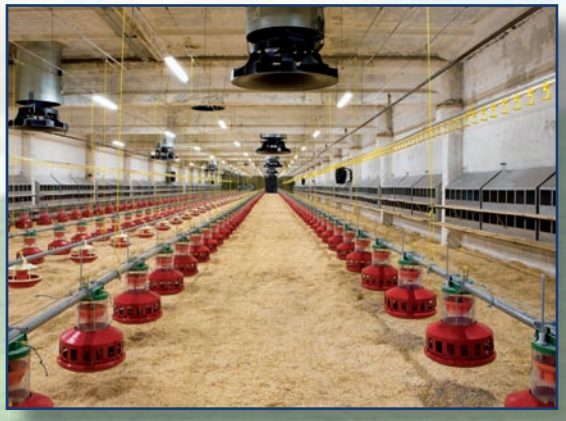

Turkey and Other Poultry Applications

- In a naturally-ventilated turkey house, use the VESC1640 to control curtain machines, recirculation fans, heaters, and evaporative cooling equipment.
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- In a broiler or layer house with tunnel ventilation, use the VESC1640 to control all fans and curtains, ceiling inlets, and heaters. The VESC1640 can close ceiling inlets or switch off wall fans when changing to tunnel mode.
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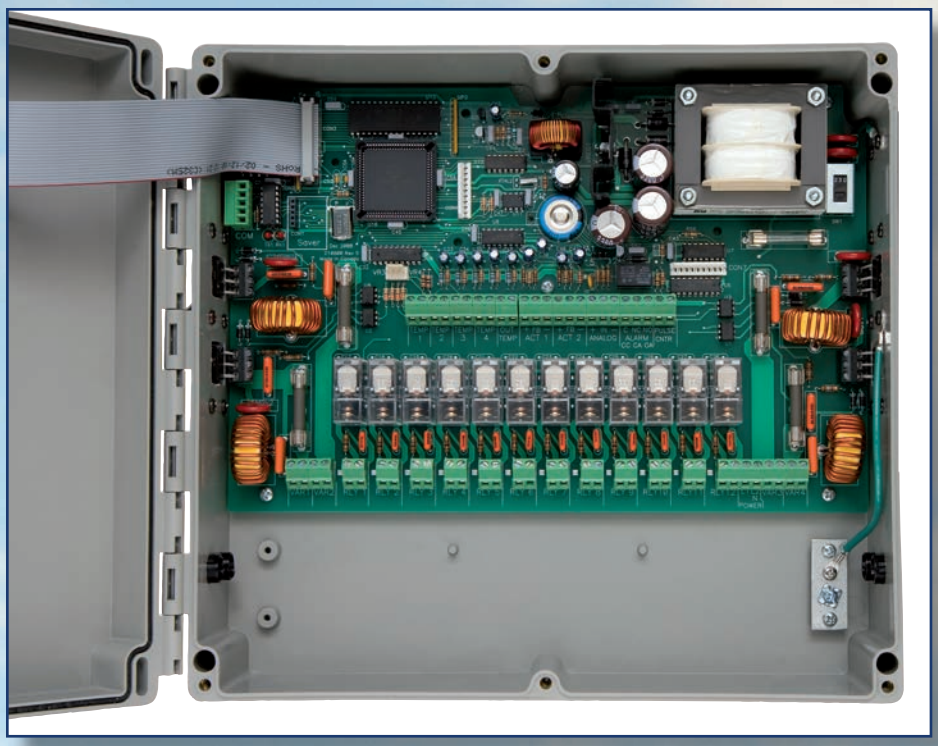

Feature list

- Four 0-10V DC Stages
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- Slave unit capability
- Inlet actuator control
- Curtain control
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- Manual override
- Custom growth curves
- Four-zone temperatures
- Outdoor temperatures
- Humidity control
- Water use monitoring
- Programmable alarms
- De-icing start (VAR fans)
- Computer compatibility
- Upgradeable firmware
- Transferable settings
- CSA approval
- Two-year warranty
- Electrical ratings Input
- Removable relays

More great features

- One alarm relay (for external alarm siren or alarm system)
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- Adjustable temperature settings, including two configurable seven-step growth curves
- Startup timer for distributing backup generator initial startup load
- Three-second full-power-turn-on for minimizing fan ice-up
- Logging of temperatures, alarms, relay “on” durations, and setting changes
- Power-failure memory protection, including internal 24-hour clock
- Four-line, backlit LCD display
- Thirty-foot temperature probe, extendable to 500 feet (additional probes available)
- Rugged enclosure (corrosion and water resistant, fire retardant)
- Two-year limited warranty
- 120/230 VAC, 50/60 Hz Relay stages
- 10 A at 120/230 VAC, general purpose (resistive)
- 1/3 HP at 120 VAC, 1/2 HP at 230 VAC
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FEATURES

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Variable stage fuses	15 A, 250 VAC ABC-type ceramic
DC signal output (V1, V2)	1 to 10 VDC, 2K Ω load
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- Ventilation disable option
- Manual override/test mode
- One temperature probe input
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- Overload protection fuses
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